

Enhanced Position Location Reporting System (EPLRS)



MISSION

Provide a mobile wireless data communications backbone for the Army's Tactical Internet; embedded situational awareness/position navigation; and a common system for Army, Air Force, Navy, and Marine Corps warfighters.

DESCRIPTION AND SPECIFICATIONS

The Enhanced Position Location Reporting System (EPLRS) supports the Army's Brigade Combat Team. EPLRS provides data distribution and position/navigation services in near real time for the warfighter at brigade and below level, in support of Battlefield Functional Area hosts and the Force XXI Battle Command Brigade-and-Below (FBCB2) program. EPLRS consists of a Network Control Station and the EPLRS radio that can be configured as a Manpack Unit, a Surface Vehicle Unit, and an Airborne Vehicle Unit. EPLRS uses a time-division, multiple-access communications architecture to avoid transmission contention along with frequency hopping, error detection, and correction with interleaving. It also uses spread spectrum technology to provide jamming resistance.

EPLRS is interoperable with U.S. Air Force, Marine Corps and Navy. It is the Tactical Internet Backbone and is used by ABCS and FBCB2 for situational awareness and Command and Control. Improvements to EPLRS include: message reliability, more efficient available bandwidth, and field programmable software.

Weight of the radio

Vehicular: 40 lb (as shown)

Manpack: 25 lb

FOREIGN COUNTERPART

No known foreign counterpart

FOREIGN MILITARY SALES

None

PROGRAM STATUS

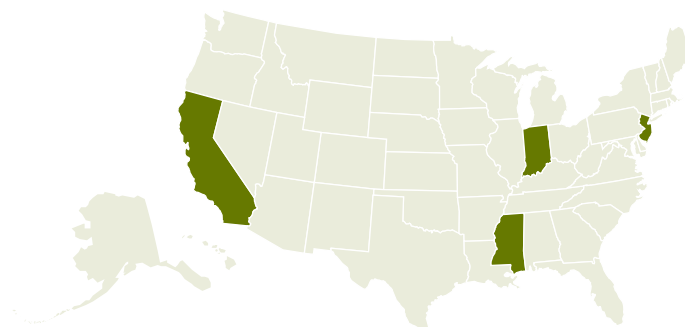
- **May 30, 2000** Contract award for 625 EPLRS radios (200 Army/425 Other Service).
- **3QFY00** Contract award for an effort to transition the EPLRS Net Control Station(NCS) currently utilizing a SICPS shelter to the EPLRS Network Manager (ENM), a laptop computer configuration. An economic analysis was validated showing a total cost savings/avoidance of over \$65M thru FY13.
- **Current** EPLRS is being fielded to the Brigade Combat Team (BCT) at Fort Lewis, WA. House and Senate conferees authorized an increase of \$37.5M for Army's Transformation Brigade, S/W enhancements and National Guard.

PROJECTED ACTIVITIES

- **1QFY01** EPLRS will participate in FBCB2's field test 3.
- **2QFY01** Participate in FBCB2 limited user test 3.
- **3QFY01** Planning completion of fielding of the Interim BCT.
- **3Q-4QFY01** Will participate in the Division Capstone Exercise (DCX)-1 and DCX-2.
- **4QFY01** Will participate in FBCB2 FT4.

PRIME CONTRACTORS

Raytheon (Fullerton, CA; Forest, MS; Fort Wayne, IN)



* See appendix for list of subcontractors

